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CURRENT SERIAL RECORDS

# ***WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO***

Prepared by  
**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with  
**COLORADO STATE UNIVERSITY EXPERIMENT STATION  
STATE ENGINEER of COLORADO  
and STATE ENGINEER of NEW MEXICO**

Data included in this report were obtained by the agencies named above in cooperation with the Bureau of Reclamation, U.S. Forest Service, National Park Service, Corps of Engineers and other Federal, State and private organizations.

AS OF  
**MAR. 1, 1973**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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### WATERSHED II - ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.

### WATERSHED III - RIO GRANDE WATERSHED (COLORADO)

Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.

### WATERSHED IV - RIO GRANDE WATERSHED (NEW MEXICO)

Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.

### WATERSHED V - DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.

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Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

### WATERSHED VII - COLORADO RIVER WATERSHED

Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and Mt. Sopris Soil Conservation Districts.

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Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

### WATERSHED IX - LOWER SOUTH PLATTE RIVER WATERSHED

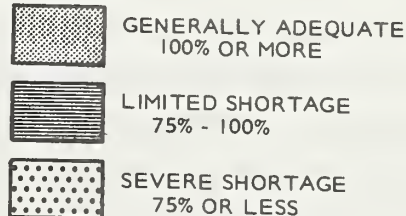
Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

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# WATER SUPPLY OUTLOOK

as of  
March 1, 1973



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

# WATER SUPPLY CONDITIONS

as of

March 1, 1973

SNOWFALL DURING FEBRUARY WAS CONSIDERABLY LESS THAN NORMAL. DESPITE THE BELOW AVERAGE MONTH THE SNOWPACK IS NEAR NORMAL OR ABOVE IN BOTH STATES. NORTHERN NEW MEXICO AND SOUTHERN COLORADO HAVE THE BEST SNOWPACK. SOIL MOISTURE CONDITIONS ARE GOOD IN BOTH STATES. CARRY-OVER STORAGE IS RELATIVELY GOOD. MORE SNOW IS NEEDED TO ASSURE ADEQUATE WATER THIS SUMMER.



## COLORADO

WATER SUPPLY FORECASTS WERE LOWERED OVER THE ENTIRE STATE DUE TO THE POOR SNOWFALL DURING FEBRUARY. LAST MONTH SNOW WAS ONLY ABOUT 25 PERCENT OF THE 15 YEAR AVERAGE IN SOME AREAS. WATER SUPPLIES SHOULD STILL BE NEARLY ADEQUATE IF SNOWFALL DURING THE REMAINDER OF THE YEAR IS AT LEAST AVERAGE. THE ARKANSAS DRAINAGE HAS ONLY 92 PERCENT OF AVERAGE SNOWPACK AND POOR CARRY-OVER STORAGE. SOIL MOISTURE IS REPORTED AS GOOD OVER THE STATE.



## NEW MEXICO

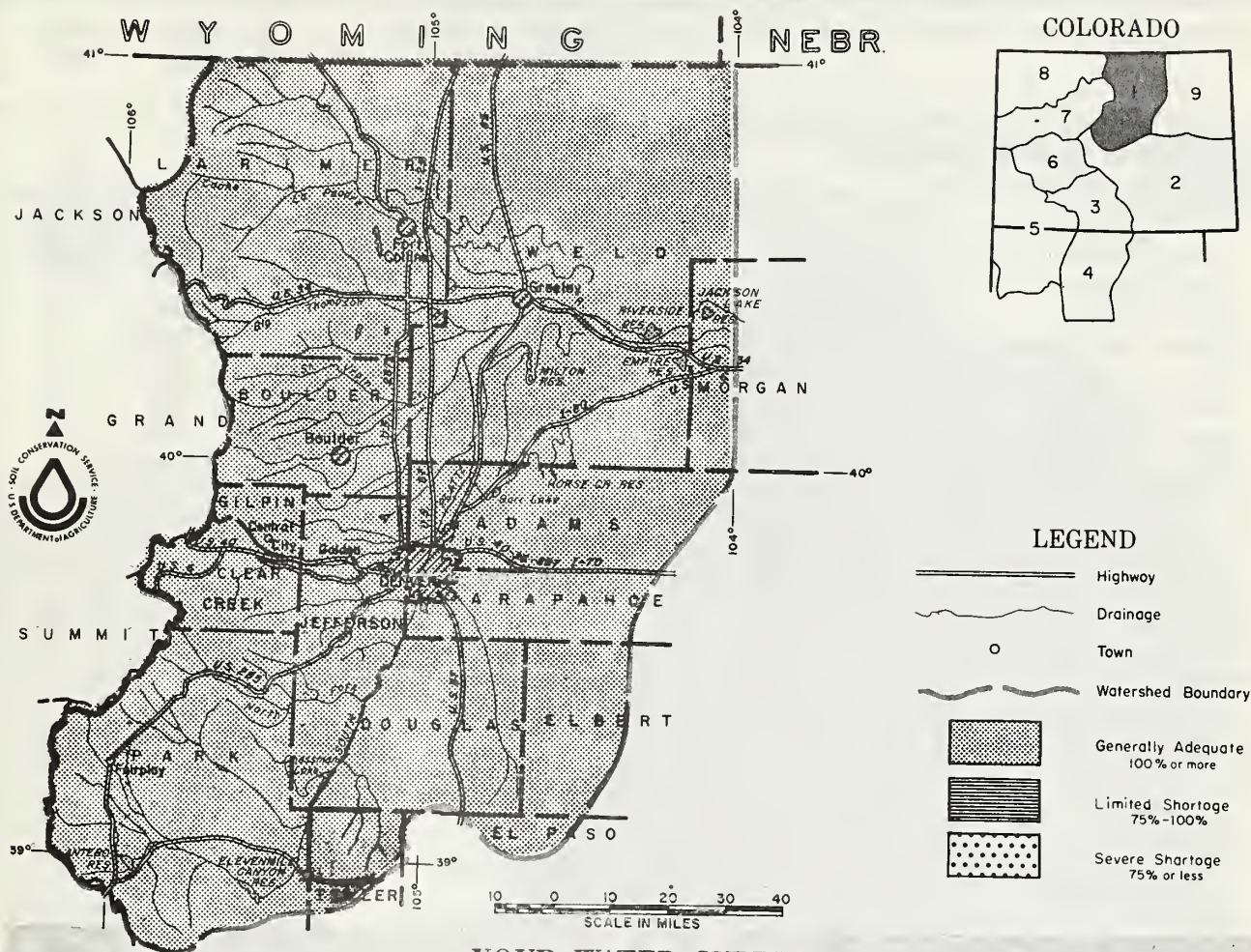
THE SNOWFALL DURING FEBRUARY WAS LESS THAN NORMAL, BUT THE EARLY SNOWS STILL BRING THE SNOWPACK ABOVE NORMAL. FORECASTS WERE LOWERED SLIGHTLY. IF SUBSEQUENT SNOWFALL IS ABOVE NORMAL, STREAMFLOWS SHOULD BE ADEQUATE FOR THE FIRST TIME IN SEVERAL YEARS. FALL PRECIPITATION ADDED NEEDED MOISTURE TO THE IRRIGATED VALLEYS AND INCREASED STORAGE IN SOME RESERVOIRS.



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of  
March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

THE SNOWPACK ON THE SOUTH PLATTE DRAINAGE WAS CONSIDERABLY BELOW NORMAL DURING FEBRUARY. IN A FEW CASES WE HAVE LESS SNOW NOW THAN FEBRUARY 1. WATER SUPPLY FORECASTS WERE LOWERED PROPORTIONATELY. SUPPLIES SHOULD STILL BE GOOD IF WE HAVE NORMAL SNOWFALL FOR THE REMAINDER OF THE YEAR. SOIL MOISTURE CONDITIONS IN THE MOUNTAINS IS NEAR NORMAL. SOIL MOISTURE IN THE IRRIGATED AREAS ARE REPORTED TO BE GOOD. RESERVOIR CARRY-OVER STORAGE IS SLIGHTLY LESS THAN LAST YEAR, BUT IS STILL 125 PERCENT OF 1953-67 AVERAGE.

This report prepared by

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Issued by

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO DENVER, COLORADO

*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average †
Big Thompson at Drake (1)	95	95	100
Boulder at Orodell	48	98	49
Cache La Poudre at Canyon Mouth (2)	210	97	215
Clear Cr. at Golden (3)	115	97	119
Saint Vrain at Lyons (4)	65	93	70

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Cumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Big Thompson	5	83	94
Boulder	3	76	86
Cache La Poudre	8	97	108
Clear Creek	5	86	78
Saint Vrain	3	74	85
South Platte	3	85	93

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Bear Creek	Avg	Avg
Coal Creek	Avg	Avg
North Fork of South Platte	Avg	Avg
North Fork of Cache La Poudre	Avg	Avg
Ralston Creek	Avg	Avg
Rock Creek	Avg	Avg

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Big Thompson	3	93	102
Boulder	1	88	84
Cache La Poudre	2	102	93
Clear Creek	2	125	100
Saint Vrain	2	94	89
South Platte	2	126	117

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Antero	33.0	15.9	15.9	10.6
Barr Lake	32.2	26.5	24.0	18.9
Black Hollow	8.0	4.4	4.2	3.3
Boyd Lake	44.0	37.5	36.1	27.8
Cache La Poudre	9.5	7.8	7.7	7.0
Carter Lake	108.9	98.4	97.5	71.3
Chambers Lake	8.8	4.4	1.6	2.7
Cheesman	79.0	41.4	79.1	46.4
Cobb Lake	34.0	21.0	20.5	9.9
Eleven Mile	97.8	90.9	73.5	72.0
Fossil Creek	11.6	8.8	8.8	6.1
Gross	43.1	24.0	28.9	24.0

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Halligan	6.4	5.1	5.6	3.8
Horsetooth	143.5	103.5	106.5	93.6
Lake Loveland	14.3	8.7	12.2	8.1
Lone Tree	9.2	8.5	7.9	6.2
Mariano	5.4	5.1	5.3	3.9
Marshall	10.3	3.5	6.1	2.5
Marston	18.0	14.5	14.8	14.3
Milton	24.4	13.3	15.9	9.5
Standley	42.0	20.5	24.3	9.8
Terry Lake	8.2	5.8	5.7	4.9
Union	12.7	10.4	12.1	7.5
Windsor	18.6	12.7	13.5	8.4

1953-1967 period.

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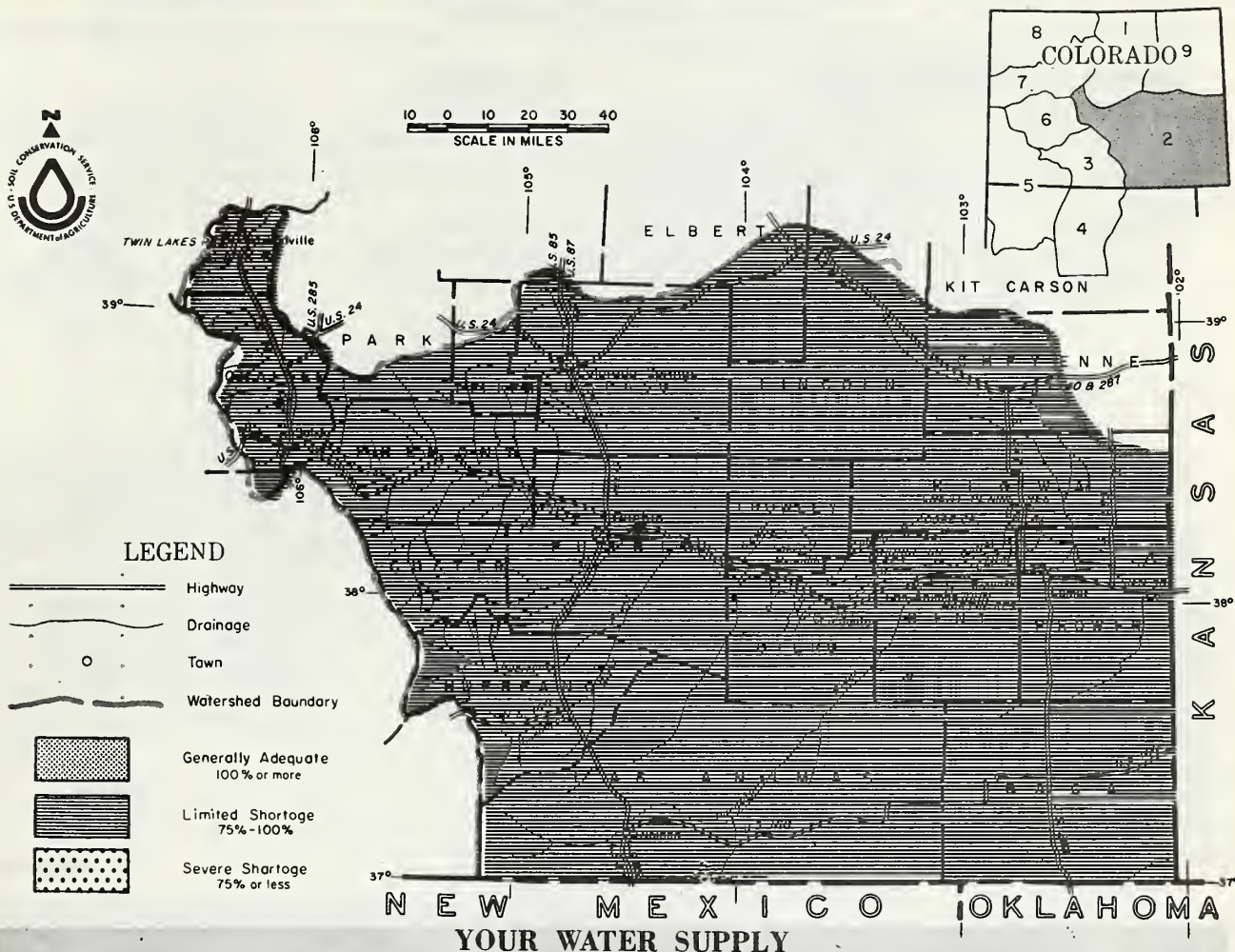


# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE ARKANSAS RIVER WATERSHED IN COLORADO

as of

March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
**CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO**



SNOWFALL DURING FEBRUARY WAS BELOW AVERAGE AND STREAMFLOW FORECASTS HAVE BEEN REDUCED ACCORDINGLY. FORECASTS FOR THE APRIL THROUGH SEPTEMBER PERIOD RANGE FROM 90 TO 97 PERCENT OF THE 1953-67 AVERAGE. RESERVOIR STORAGE IS ONLY 80 PERCENT OF AVERAGE EXCLUDING JOHN MARTIN AND TURQUOISE RESERVOIRS, WHICH HAVE 17,000 AND 49,000 ACRE FEET RESPECTIVELY. THIS IS ABOUT 80 PERCENT OF LAST YEAR. ABOVE AVERAGE SNOWFALL IS NEEDED TO INSURE ADEQUATE WATER SUPPLIES THIS SUMMER.

This report prepared by

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DENVER, COLORADO LA JUNTA, COLORADO

*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average <sup>+</sup>
Arkansas nr Pueblo (1)	290	97	298
Arkansas at Salida (1)	300	97	309
Cucharas nr LaVeta	11	92	12
Purgatoire at Trinidad	40	90	46

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Busk Ivanhoe, Baustead, Divide, Twin Lakes and Homestake Tunnels and Ewing, Front Pass, Wurtz and Columbine ditches.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>+</sup>
Arkansas	10	89	92
Cucharas and Purgatoire	3	100	100

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa	Avg	Fair
Fountain Creek	Avg	Fair
Grape	Avg	Fair
Hardscrable Creek	Avg	Fair
Huerfano	Avg	Fair
Monument Creek	Avg	Fair

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>+</sup>
Arkansas	3	134	110
Cucharas and Purgatoire	1	97	96

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Adobe	61.6	0.0	13.5	11.5
Clear Creek	11.4	5.7	6.2	6.6
Cucharas	40.0	0.0	0.0	6.9
Great Plains	150.0	25.2	42.0	35.4
Horse Creek	26.9	0.0	0.0	4.9

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
John Martin	353.9	17.1	22.6	85.1
Meredith	41.9	22.5	8.5	9.0
Model	15.0	---	1.0	3.1
Turquoise	130.0	48.9	58.7	7.0
Twin Lakes	57.9	25.5	30.8	20.1

+ 1953-1967 period.

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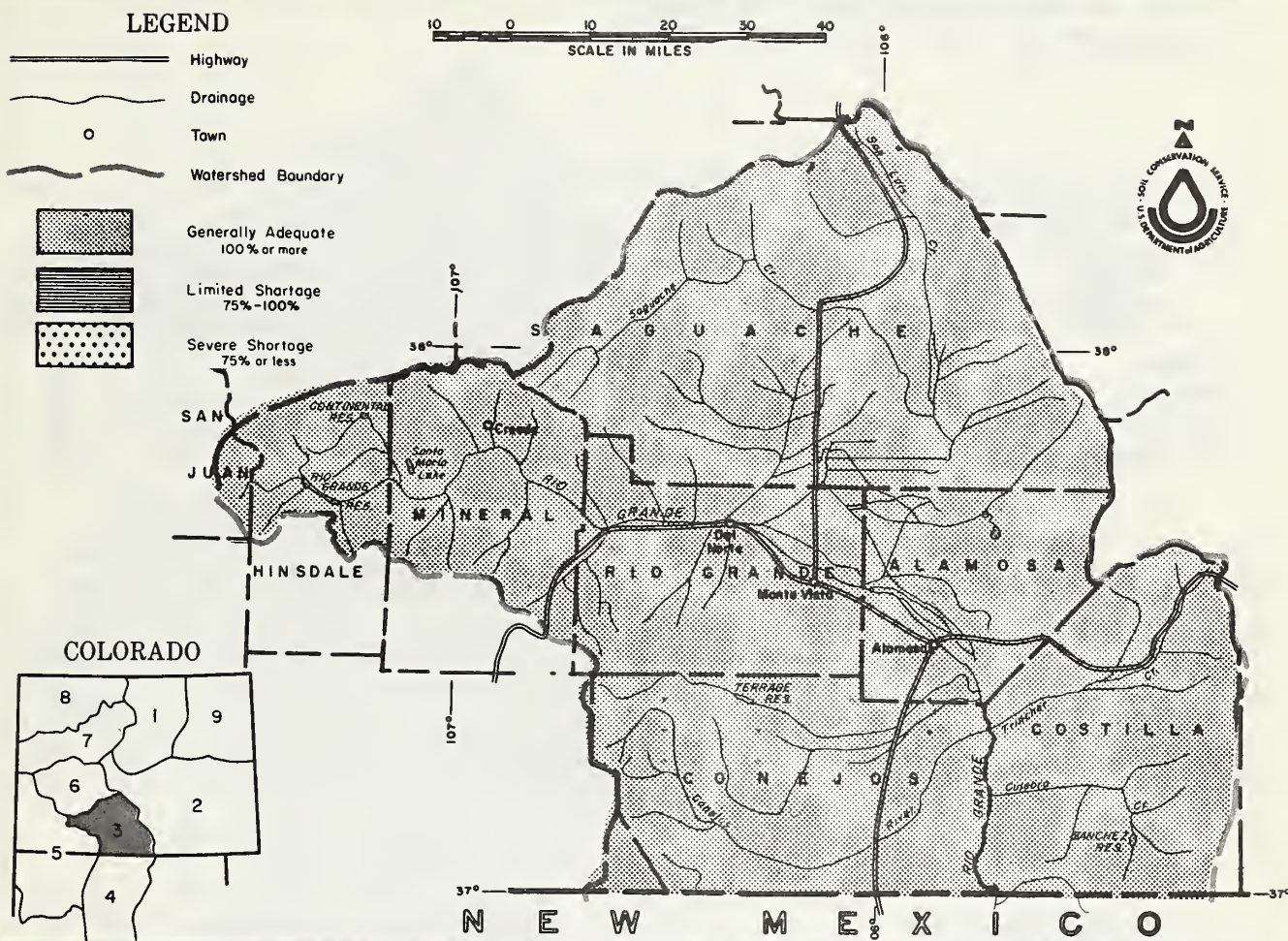
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

as of  
March 1, 1973

**U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

WATER SUPPLY FORECASTS ARE ABOVE AVERAGE IN ALL TRIBUTARIES OF THE RIO GRANDE. HOWEVER, SNOWFALL DURING FEBRUARY WAS BELOW AVERAGE. IF AVERAGE SNOWFALL CONTINUES DURING THE REMAINDER OF THE SEASON WATER SUPPLIES SHOULD BE ADEQUATE. RESERVOIR STORAGE IS 98 PERCENT OF THE 1953-67 AVERAGE AND SOIL MOISTURE CONDITIONS IN THE MOUNTAIN AREAS ARE NEAR AVERAGE.

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Issued by

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*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
Alamosa abv Terrace	80	129	62
Conejos nr Mogote (1)	225	124	182
Culebra at San Luis (2)	19	100	19
Rio Gr. at 30 Mile Bridge (3)	140	120	117
Rio Gr. nr Del Norte (3)	500	114	438
So. Fork at So. Fork	135	123	110

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Alamosa	2	169	154
Conejos	3	161	123
Culebra	2	95	110
Rio Grande	10	117	127

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Alamosa	1	92	84
Conejos	1	92	84
Culebra	2	96	90
Rio Grande	2	108	100

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Continental	26.7	4.8	5.8	4.4
Platoro	60.0	2.9	2.9	7.1
Rio Grande	45.8	18.4	16.2	12.0

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Sanchez	103.2	5.9	10.0	10.6
Santa Maria	45.0	4.8	6.4	5.5
Terrace	17.7	5.7	6.0	3.7

+ 1953-1967 period.

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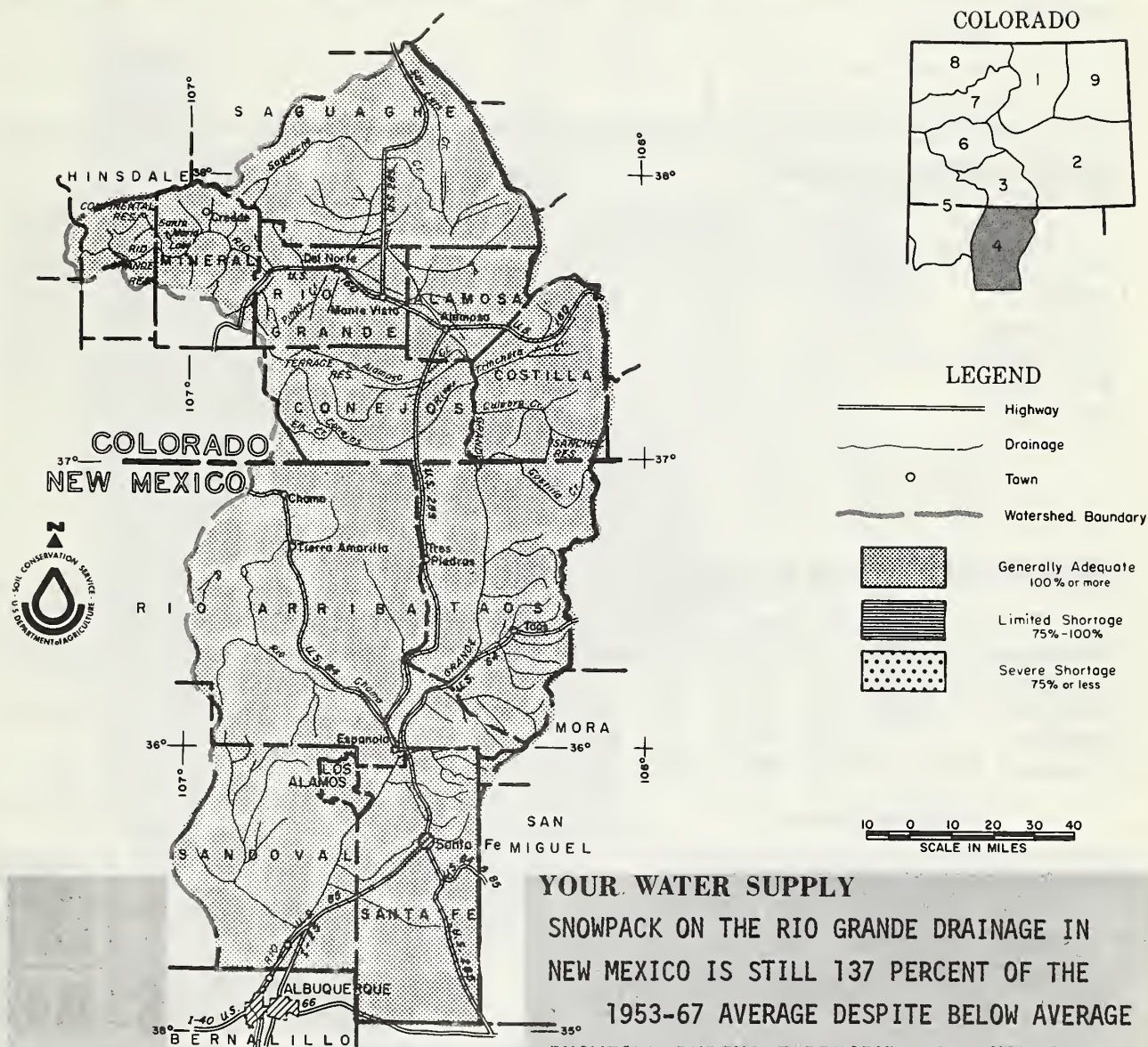


# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as of

March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



CONTINUES AT LEAST AT A NORMAL RATE, WATER SUPPLIES SHOULD BE GENERALLY ADEQUATE. CARRY-OVER STORAGE IS GOOD DUE TO THE FALL RAINS. SOIL MOISTURE IS REPORTED TO BE EXCELLENT.

This report prepared by

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ALBUQUERQUE, NEW MEXICO SANTA FE, NEW MEXICO

*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Mar-Jul

FORECAST POINT	FORECAST	% of Average	Average +
Costilla at Cost. (1)	23	128	18
Pecos at Pecos	52	127	41
Rio Chama to El Vado	230	122	188
Rio Gr. at Otowi (2)	600	117	513
Rio Gr. at San Mar (2)	420	126	334
Rio Hondo nr Valdez	17	113	15
Red R. at mouth nr Questa	40	125	32

The forecast of the Rio Grande at San Marcial is 65% of the Average used by the Elephant Butte Irrigation District. (1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Embudo Creek	Exc	Avg
Jemez River	Exc	Avg
Mora River	Exc	Avg
Nambe Creek	Exc	Avg
Rio Ojo Caliente	Exc	Avg
Rio Pueblo de Taos	Exc	Avg
Santa Fe Creek	Exc	Avg

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Pecos	1	410	180
Rio Chama	4	214	119
Rio Grande, NM	12	190	137
Rio Hondo	1	185	---
Red River	2	148	138

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Pecos	2	76	88
Rio Chama	1	170	170
Rio Grande	2	110	123
Red River	1	63	79

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Alamogordo	111	87	52	76
Caballo	344	73	17	81
Conchas	273	143	79	163
Elephant Butte	2195	382	223	370

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
El Vado	195	23	1	4
McMillen-Avalon	32	33	13	20

+ 1953-1967 period.

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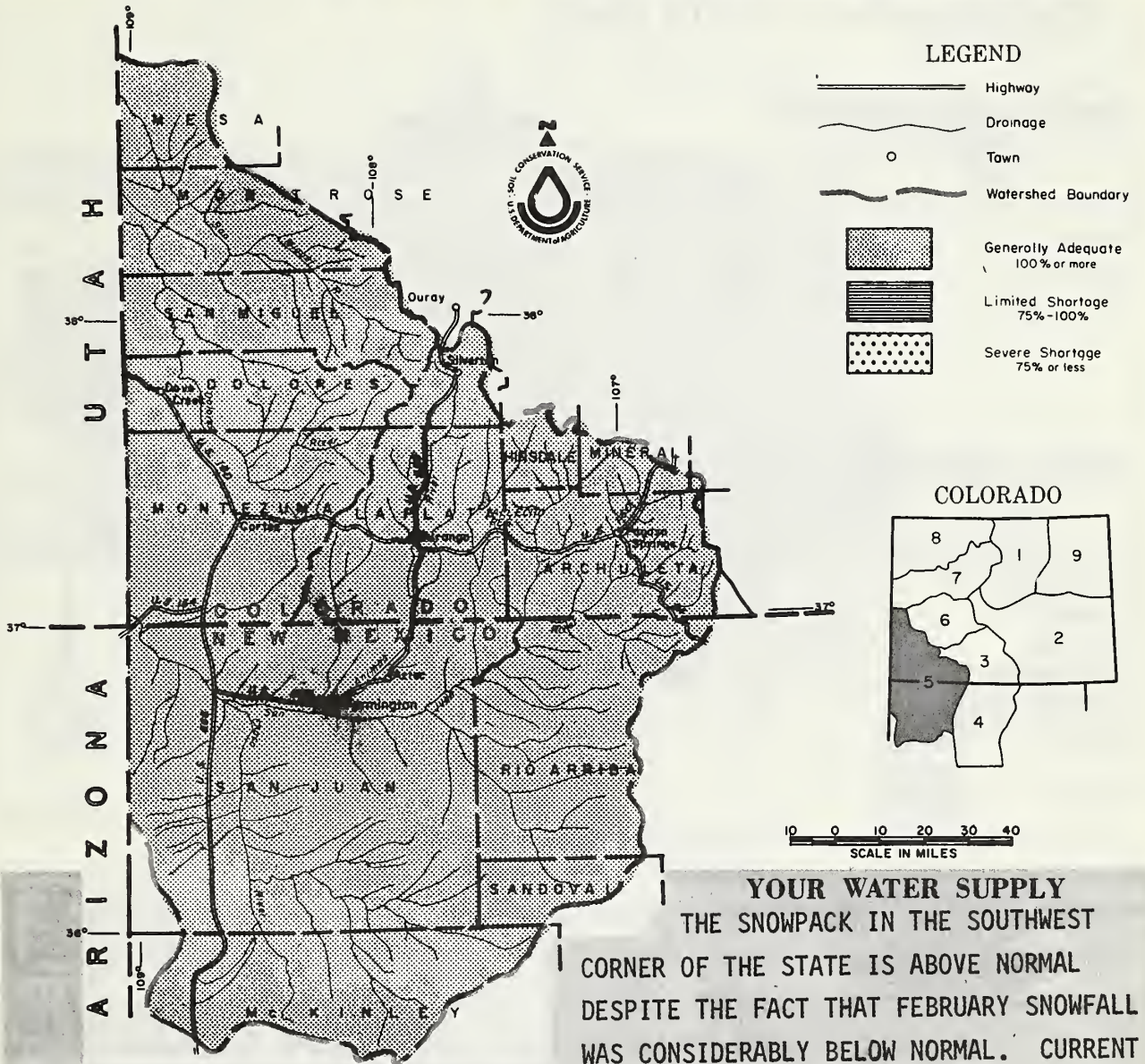
# FIRST CLASS MAIL



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

as of  
March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



SNOW RANGES FROM 131 PERCENT OF THE 1953-67 AVERAGE ON THE ANIMAS TO 144 PERCENT ON THE DOLORES. CARRY-OVER STORAGE IS CONSIDERABLY BETTER THAN NORMAL. SOIL MOISTURE CONDITIONS IN THE IRRIGATED AREAS ARE REPORTED AS GOOD AND MOUNTAIN SOIL MOISTURE IS ABOVE NORMAL.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
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DENVER, COLORADO

Issued by

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*The Conservation of Water begins with the Snow Survey*

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

[illegible]

(1) Observed flow plus change in storage in Vallicito Reservoir.

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Animas	3	115	111
Dolores	3	108	100
San Juan	2	115	111

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †

+ 1953-1967 period.



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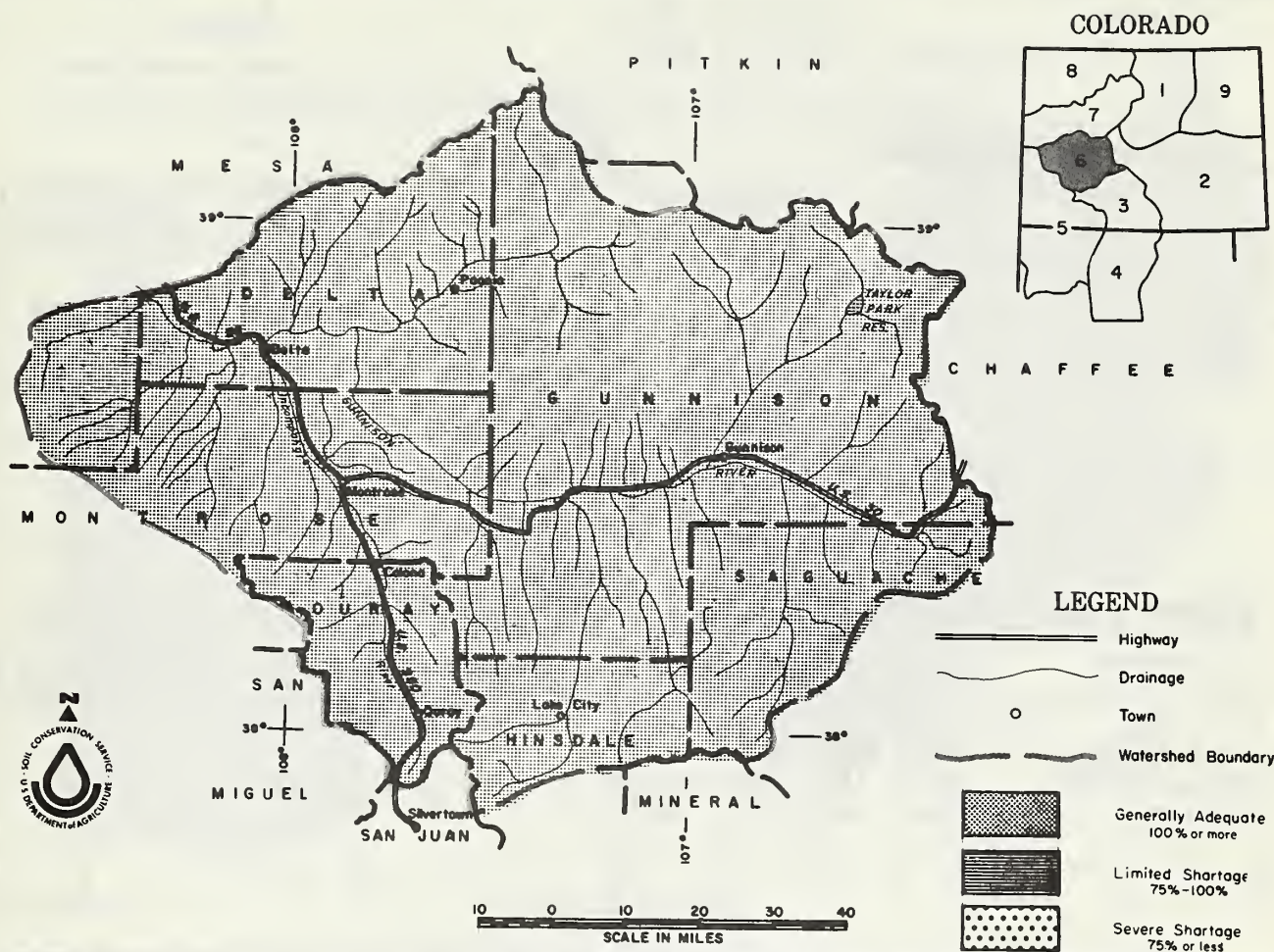


# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of

March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



STREAMFLOW FORECASTS ARE ABOVE AVERAGE ON ALL TRIBUTARIES IN THE GUNNISON DRAINAGE EVEN THOUGH SNOWFALL WAS BELOW AVERAGE DURING FEBRUARY. FORECASTS FOR THE APRIL THROUGH SEPTEMBER PERIOD RANGE FROM 102 TO 120 PERCENT. WITH AVERAGE SNOWFALL THE REMAINDER OF THE SEASON THE WATER SUPPLIES SHOULD BE ADEQUATE THIS SUMMER. RESERVOIR STORAGE IN BLUE MESA AND MORROW POINT RESERVOIRS ARE ABOUT THE SAME AS LAST YEAR. TAYLOR PARK RESERVOIR CONTAINS 40,000 ACRE FEET COMPARED TO LAST YEAR'S 68,000 ACRE FEET.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAN  
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DENVER, COLORADO

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO GLENWOOD SPRINGS, COLORADO

*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average +
Gunnison R. inflow to Blue Mesa Res. (1)	780	102	767
Gunnison nr Gr. Junction (2)	1350	119	1137
N. Fork of Gunnison (3)	300	117	257
Surface Cr. nr Cedaridge	19	119	16
Uncompahgre at Colona	155	120	129

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs.  
 (3) Observed flow plus change in storage in Paonia Reservoir.

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average +
Gunnison	12	113	113
Surface Creek	3	113	115
Uncompahgre	3	129	129

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Taylor	Exc	Avg

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Gunnison	1	105	116
Surface Creek	1	124	132
Uncompahgre	1	124	132

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Blue Mesa	941	315	323	---
Morrow Point	121	115	116	---
Taylor	106	40	68	56

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +

+ 1953-1967 period.

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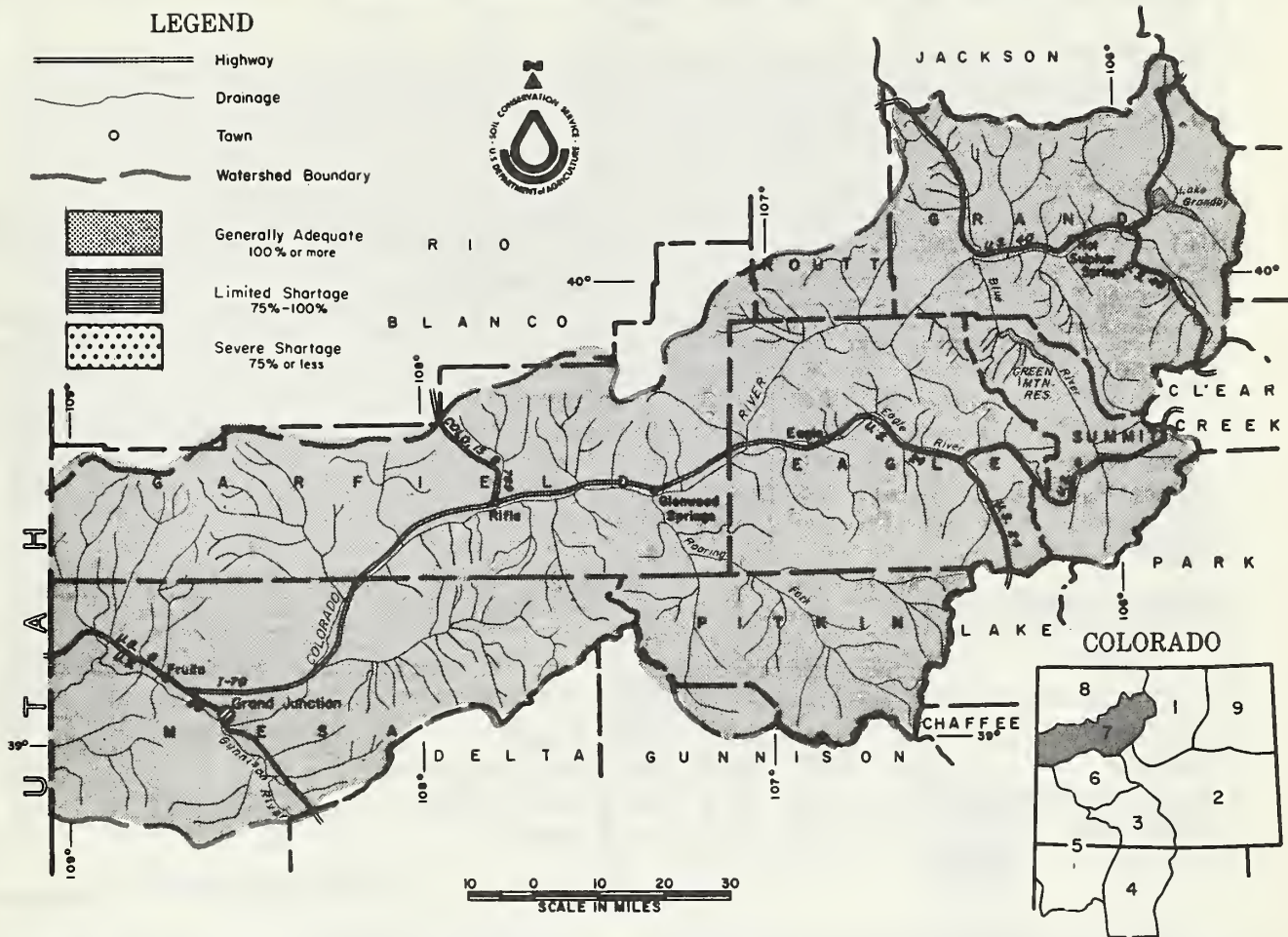
# FIRST CLASS MAIL



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO

as of  
March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

STREAMFLOW FORECASTS WERE LOWERED DUE TO THE MUCH BELOW NORMAL SNOWFALL DURING FEBRUARY. THE SUMMER FLOW OUTLOOK IS STILL RELATIVELY GOOD AND WATER SUPPLIES SHOULD BE ADEQUATE IF WE HAVE AT LEAST AVERAGE SNOWFALL FOR THE REMAINDER OF THE YEAR. CURRENT SNOWPACK RANGES FROM 84 PERCENT OF THE 15 YEAR AVERAGE ON WILLOW CREEK TO 113 PERCENT ON THE PLATEAU CREEK. MOUNTAIN SOILS ARE WET AND VALLEY IRRIGATORS REPORT SOILS IN GOOD CONDITION. CARRY-OVER STORAGE IS SLIGHTLY BETTER THAN AVERAGE.

This report prepared by  
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GLENWOOD SPRINGS, COLORADO

*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
BlueR. inflow to Dillon	115	75	153
Blue abv Gr. Mt. (1)	185	78	236
Colo. Rv. inflow to Granby Res. (2)	205	94	219
Colo. Rv. nr Dotsero (3)	1350	98	1375
Roar.Fk. at Gl. Spr. (4)	700	101	692
Wm Fk. nr Par. (5)	60	100	60
Will. Cr. inflow to Will. Cr. Res.	42	91	46
Colo. nr Cameo (6)	2100	95	2216

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush	Avg	Fair
Eagle River	Avg	Fair
Gypsum Creek	Avg	Fair

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1) (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (4).

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Blue River	8	76	83
Colorado	21	84	95
Plateau	3	119	113
Roaring Fork	7	93	98
Williams Fork	3	99	111
Willow	2	71	84

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Blue River	1	119	114
Colorado	5	122	112
Roaring Fork	1	134	150
Willow	1	107	103

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Dillon	254	219	236	234
Granby	466	407	341	233
Green Mountain	147	85	79	63
Homestake	43	18	10	--

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Ruedi	101	62	66	--
Williams Fork	97	57	55	27
Willow Creek	9	9	8	6
Vega	32	14	14	11

+ 1953-1967 period.

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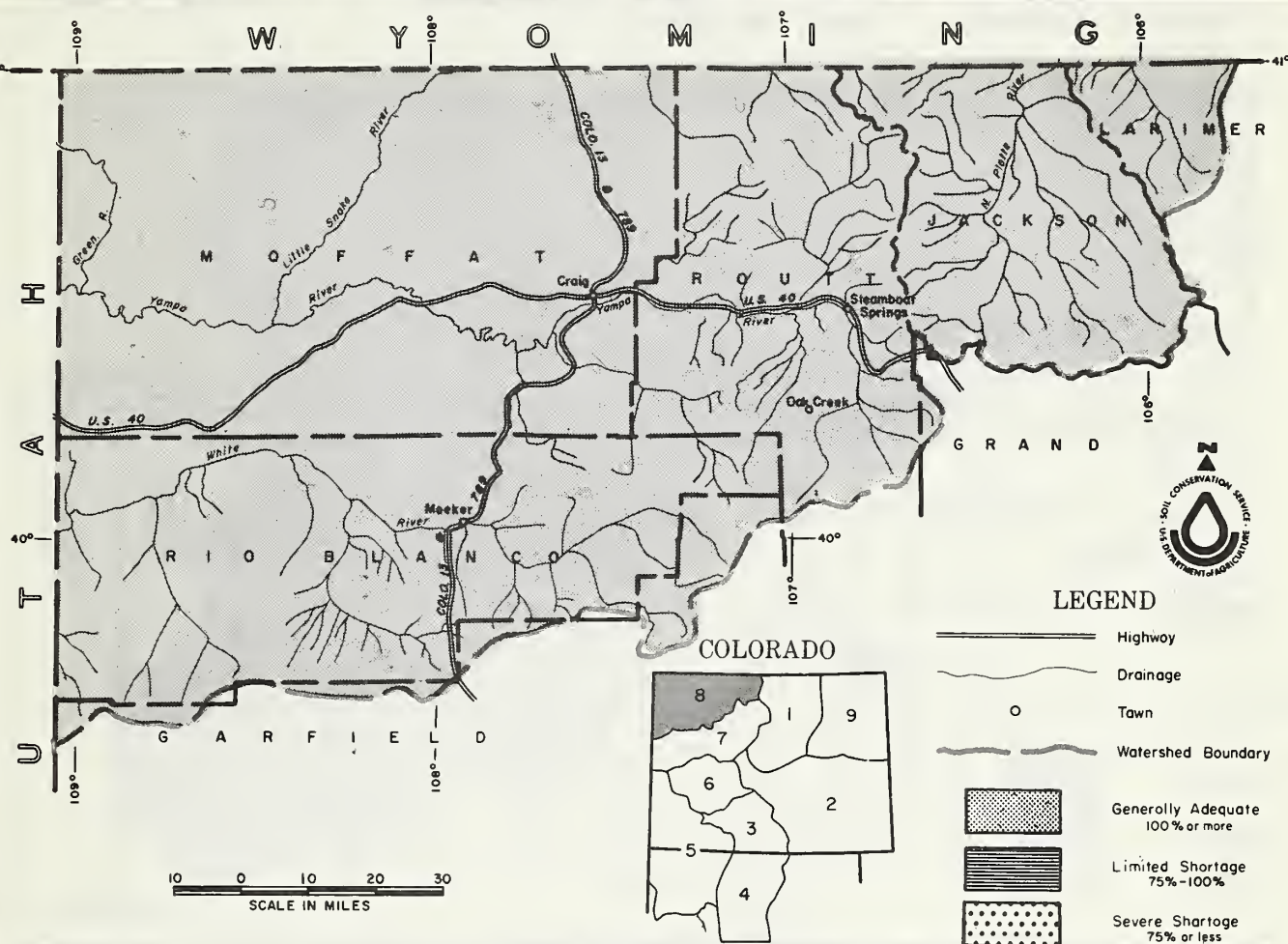
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of  
March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

SNOWPACK REMAINS NEAR NORMAL ON THE YAMPA, WHITE AND NORTH PLATTE WATERSHEDS. THE WHITE RIVER INDICATES 106 PERCENT OF THE 15 YEAR NORMAL AND HAS THE BEST SNOW IN THE AREA. FORECASTS FELL SLIGHTLY DURING THE MONTH DUE TO THE BELOW NORMAL SNOWFALL DURING FEBRUARY. IF SNOW CONTINUES TO FALL AT LEAST AT A NORMAL RATE WATER SUPPLIES SHOULD BE ADEQUATE THIS SUMMER. ALTHOUGH COLD TEMPERATURES EXISTED DURING MOST OF THE MONTH, SOIL MOISTURE CONDITIONS REMAINED GOOD. MOUNTAIN SOIL MOISTURE STORAGE REMAINS ABOUT NORMAL FOR THIS TIME OF YEAR.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO GLENWOOD SPRINGS, COLORADO

*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average †
Elk at Clark	170	90	191
Laramie at Jelm	95	95	104
Little Snake at Lily	250	90	277
No. Platte at Northgate	205	95	215
White nr Meeker	270	92	293
Yampa nr Maybell	780	91	853
Yampa at Steamboat Springs	250	96	260

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Canadian River	Avg	Fair
Hunt Creek	Avg	Fair
Illinois River	Avg	Fair
Michigan River	Avg	Fair
Oak Creek	Avg	Fair
Trout Creek	Avg	Fair

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Elk	2	89	81
Laramie	2	86	93
North Platte	5	88	102
White	2	106	94
Yampa	5	87	92

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Laramie	2	102	93
North Platte	2	100	116
Yampa	1	107	103

† 1953-1967 period.

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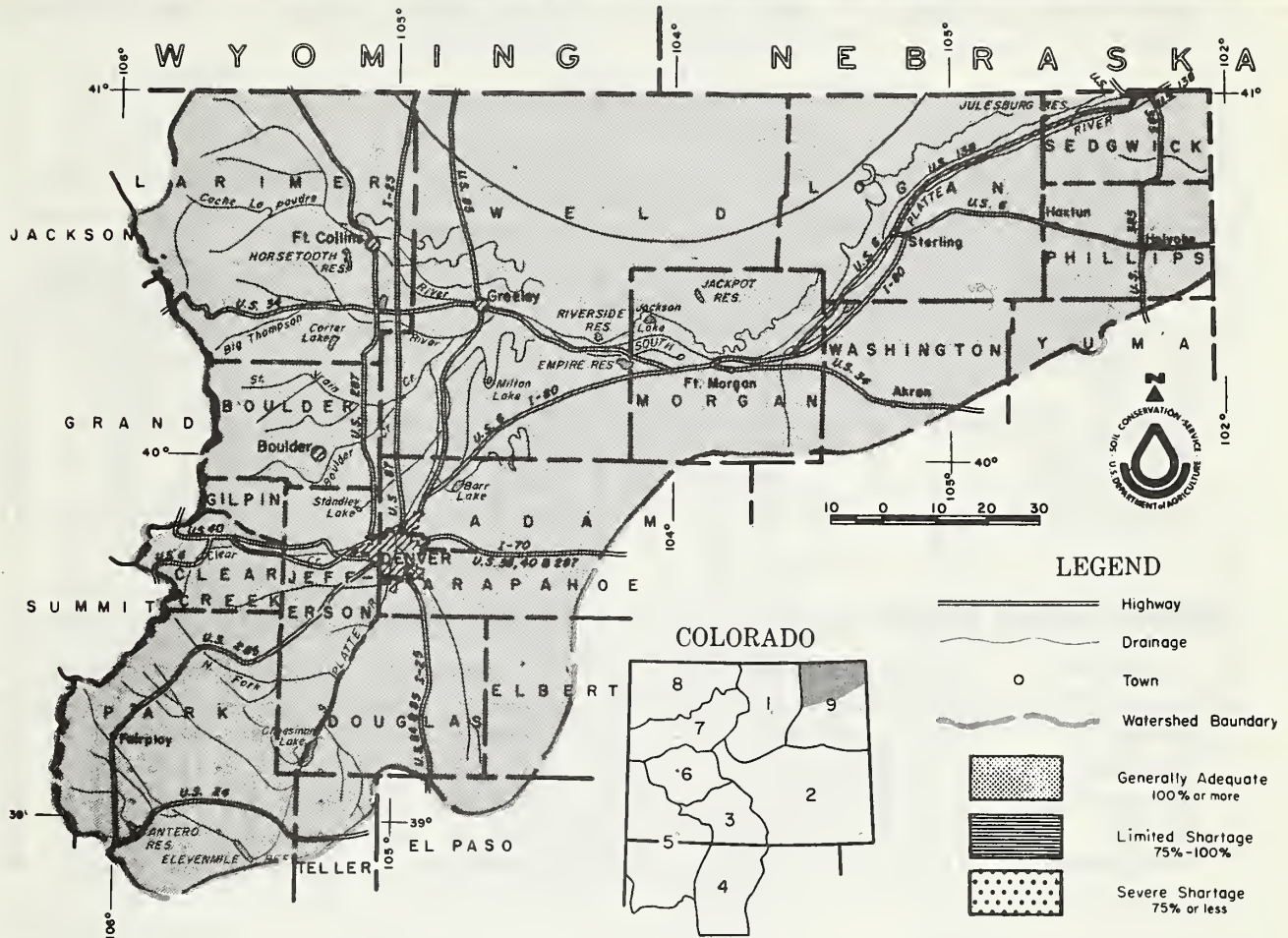
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of  
March 1, 1973

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
**CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO**



## YOUR WATER SUPPLY

SNOWFALL WAS LIGHT DURING FEBRUARY OVER THE ENTIRE SOUTH PLATTE DRAINAGE. STREAMFLOW FORECASTS WERE DROPPED CORRESPONDINGLY. FORECASTS STILL INDICATE NEAR NORMAL WATER SUPPLIES IF SNOWFALL IS NORMAL FOR THE REMAINDER OF THE YEAR. RESERVOIR CARRY-OVER STORAGE IS STILL 117 PERCENT OF THE 15 YEAR AVERAGE AND WILL PROVIDE EXCELLENT SUPPLEMENTAL SUPPLIES. SOIL MOISTURE CONDITIONS IN THE IRRIGATED AREAS ARE EXCELLENT.

This report prepared by

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Issued by

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DENVER, COLORADO  
STERLING, COLORADO

*The Conservation of Water begins with the Snow Survey*

# STREAMFLOW FORECASTS (1000 Ac. Ft.) Apr-Sept

FORECAST POINT	FORECAST	% of Average	Average †
Big Thompson at Drake (1)	95	95	100
Boulder at Orodell	48	98	49
Cache La Poudre at Canyon Mouth (2)	210	97	215
Clear Cr. at Golden(3)	115	97	119
Saint Vrain at Lyons (4)	65	93	70

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
South Platte from Greeley to Ft. Morgan	Avg	Fair
South Platte from Ft. Morgan to Sterling	Avg	Fair
South Platte below Sterling	Avg	Fair

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Big Thompson	5	83	94
Boulder	3	76	86
Cache La Poudre	8	97	108
Clear Creek	5	86	78
Saint Vrain	3	74	85
South Platte	3	85	93

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Big Thompson	3	93	102
Boulder	1	88	84
Cache La Poudre	2	102	93
Clear Creek	2	125	100
Saint Vrain	2	94	89
South Platte	2	126	117

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Carter	108.9	98.4	97.5	71.3
Cheesman	79.0	41.4	79.1	46.4
Eleven Mile	97.8	90.9	73.5	72.0
Empire	37.7	26.5	23.7	27.2
Horsetooth	143.5	103.5	106.5	93.6

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Jackson	35.4	29.7	32.9	30.8
Julesburg	28.2	19.8	19.8	20.7
Prewitt	32.8	18.1	22.6	14.5
Point of Rocks	70.0	70.3	69.9	49.9
Riverside	57.5	53.2	55.4	44.6

† 1953-1967 period.

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# APPENDIX I

## SNOW COURSE MEASUREMENTS as of March 1, 1973

SNOW COURSE	CURRENT INFORMATION		PAST RECORD		
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG 53 67
NORTH PLATTE BASIN					
Laramie River					
Deadman Hill	2/27	37	10.9	13.4	12.6
McIntyre	NS			---	---
Roach	2/26	51	14.3	16.0	14.4
North Platte River					
Cameron Pass	2/28	60	22.5	25.5	18.8
Columbine Lodge	2/27	51	16.1	23.1	19.6
Northgate	2/28	27	6.6	3.3	5.3
Park View	2/26	31	7.7	7.8	7.2
Willow Cr. Pass (B)	2/26	35	8.8	10.7	9.8
SOUTH PLATTE BASIN					
Boulder Creek					
Baltimore	2/26	24	5.9	6.1	5.8
Boulder Falls	2/27	32	8.7	12.4	9.1
University Camp	2/27	40	11.5	15.7	15.6
Big Thompson River					
Deer Ridge	2/27	15	5.7	3.7	3.9
Hidden Valley	2/27	31	9.0	7.7	7.9
Lake Irene (B)	2/25	54	14.9	19.2	18.2
Long's Peak	2/23	29	6.2	10.3	8.0
Two Mile	2/27	36	10.2	14.9	10.9
Cache La Poudre					
Bennett Creek	2/24	26	6.7	6.2	---
Big South	2/26	8	2.4	0.4	2.4
Cameron Pass	2/28	60	22.5	25.5	18.8
Chambers Lake	2/26	26	8.0	7.2	7.2
Deadman Hill	2/27	37	10.9	13.4	12.6
Hour Glass Lake	2/24	24	6.4	5.9	5.1
Joe Wright	2/28	55	18.2	18.9	---
Lost Lake	2/26	32	8.7	11.1	9.6
Pine Creek	2/27	12	2.9	1.1	1.6
Red Feather	2/27	21	6.2	5.2	5.6
Clear Creek					
Baltimore (B)	2/26	24	5.9	6.1	5.8
Berthoud Falls	2/26	36	9.6	11.8	11.5
Empire	2/26	17	4.3	5.1	6.0
Grizzly Peak (B)	2/26	37	9.5	15.5	13.4
Loveland Lift	2/27	45	12.8	9.2	17.7
Loveland Pass	2/27	39	10.1	12.9	12.3
Saint Vrain River					
Copeland Lake	2/27	14	4.1	5.1	3.7
Ward	2/27	21	4.9	4.4	4.8
Wild Basin	2/27	25	6.4	11.2	9.7
South Platte River					
Como	2/27	25	7.1	8.3	---
Geneva Park	2/28	18	3.9	3.5	3.1
Horseshoe Mt.	2/26	29	6.6	11.9	---
Hoosier Pass	2/28	32	8.5	11.3	10.5
Jefferson Creek	2/27	27	7.1	8.2	7.4
Mosquito	2/27	25	6.7	11.3	---
Trout Creek Pass	2/26	21	4.6	6.2	---
ARKANSAS BASIN					
Arkansas River					
Bigelow Divide	2/23	27	4.9	2.3	4.8
Cooper Hill (B)	2/26	32	7.4	8.7	8.5
East Fork	2/28	26	5.9	8.2	7.6
Four Mile Park	2/26	19	4.3	5.7	4.6
Fremont Pass	2/28	38	10.2	12.6	12.4
Garfield	2/27	39	12.5	11.0	11.4
Hermit Lake	2/26	30	8.6	6.6	---
Monarch Pass	2/27	45	14.4	14.3	14.3
Tennessee Pass	2/27	29	7.7	9.8	8.5
Twin Lakes Tunnel	2/27	22	6.0	10.8	8.6
Westcliffe	2/26	29	6.4	5.8	5.7

SNOW COURSE	CURRENT INFORMATION		PAST RECORD		
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG 53 67
Cucharas River					
Blue Lakes	2/26	11	3.6	0.0	3.5
Cucharas Pass	2/26	29	8.0	4.4	---
LaVeta Pass (B)	2/26	34	7.3	8.4	7.8
Purgatorie River					
Bourbon	2/26	30	6.8	5.0	6.4
RIO GRANDE BASIN-COLO					
Alamosa River					
Silver Lakes	2/23	37	9.8	2.2	5.5
Summitville	2/26	62	21.2	16.1	14.6
Conejos River					
Cumbres	3/2	53	19.0	12.8	16.5
LaManga	3/2	60	19.6	12.3	---
Platoro	2/27	54	17.8	12.8	13.8
River Springs	2/27	27	7.6	2.0	5.8
Culebra River					
Brown Cabin	2/27	28	6.9	4.1	---
Cottonwood (B)	2/27	29	6.9	---	---
Culebra	2/26	37	9.3	9.0	7.3
LaVeta Pass (B)	2/26	34	7.3	8.4	7.8
Trinchera (B)	3/2	32	8.6	7.8	---
Rio Grande					
Cochetopa Pass	2/26	26	5.8	5.4	4.5
Grayback	2/26	54	17.4	---	---
Hiway	2/27	70	26.2	19.8	21.4
Lake Humphrey	2/22	33	7.6	7.4	6.2
Love Lake	2/27	41	11.6	10.2	---
Pass Creek	2/27	47	16.0	10.5	10.8
Pool Table	2/27	27	5.7	6.4	5.9
Porcupine	2/28	36	8.2	11.6	8.7
Santa Maria	2/27	25	5.0	4.2	4.4
Upper Rio Grande	2/28	37	10.2	10.5	6.6
Wolf Creek Pass	2/29	74	27.5	21.2	22.9
Wolf Cr. Sum. (B)	2/29	85	31.7	26.1	22.1
RIO GRANDE BASIN-NM					
Pecos River					
Panchuela	2/26	24	5.8	1.4	3.2
Rio Chama					
Bateman	2/26	40	11.0	6.8	9.4
Capulin	3/1	21	4.7	2.2	3.9
Chama Divide	2/26	21	5.1	0.5	3.6
Chamita	2/27	33	8.7	4.3	7.9
Rio Grande					
Aspen Grove	2/21	29	7.7	4.5	5.2
Big Tesuque	2/20	32	9.6	4.2	4.6
Blue Bird Mesa	2/28	14	4.1	1.5	4.7
Cordova	2/28	38	8.3	6.2	9.7
Elk Cabin	2/23	27	6.4	---	3.3
Hopewell	2/27	47	15.0	11.1	---
La Cueva	2/26	26	7.3	4.8	3.9
Pajarito Peak	3/1	12	2.3	0.0	1.5
Payrole	2/26	34	9.5	5.4	7.8
Quemazon	2/22	39	9.7	6.8	7.7
Rio En Medio	2/20	43	13.2	6.3	7.9
Sandoval	2/23	26	6.2	5.1	5.0
Taos Canyon	2/23	23	6.4	1.6	4.4
Teakettle	2/28	35	9.3	---	---
Tres Ritos	3/1	28	7.7	1.9	4.8
Rio Hondo					
Twinning	2/23	32	8.7	4.7	---
Red River					
Hematite Park (B)	2/22	22	6.0	2.6	3.7
Red River	2/22	24	6.3	5.7	5.2

NOTE: NS - No Survey  
(B) - On adjacent drainage



# APPENDIX I

SNOW COURSE MEASUREMENTS as of March 1, 1973

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG 53 67
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	2/27	42	14.1	8.5	10.2
Lemon	2/26	37	11.2	6.5	---
Mineral Creek	2/27	49	16.2	11.7	11.7
Molas Lake	2/27	44	13.8	10.4	11.0
Purgatory	2/27	67	22.9	19.1	---
Red Mt. Pass (B)	2/27	80	29.9	25.8	23.5
Silverton Sub-Sta	2/27	35	10.6	6.7	5.6
Spud Mountain	2/27	68	24.1	20.1	19.5
<u>Dolores River</u>					
Lizzard Head	2/27	51	16.5	13.3	12.6
Lone Cone	2/27	46	15.1	13.0	---
Rico	2/27	34	10.5	5.8	6.8
Telluride	2/28	31	9.3	6.4	5.9
Trout Lake	2/28	45	14.0	9.5	10.7
<u>San Juan River</u>					
Chama Divide (B)	2/26	21	5.1	0.5	3.6
Chamita (B)	2/27	33	8.7	4.3	7.9
Upper San Juan	2/27	84	32.3	23.5	25.2
Wolf Cr. Pass (B)	2/29	74	27.5	21.2	22.9
Wolf Cr. Summit	2/29	85	31.7	26.1	22.1
GUNNISON BASIN					
<u>Gunnison River</u>					
Alexander Lake	2/27	61	19.4	19.6	17.0
Blue Mesa	2/28	32	7.3	7.0	3.5
Butte	2/28	38	10.5	10.6	---
Cochetopa Pass (B)	2/26	26	5.8	5.4	4.5
Crested Butte	2/27	43	11.1	9.8	10.6
Keystone	2/27	56	18.3	15.4	16.3
Lake City	2/23	30	7.1	6.8	7.6
Mesa Lakes (B)	2/27	50	16.2	13.1	13.4
McClure Pass	2/26	50	16.7	14.7	14.6
Park Cone	2/26	31	7.3	8.9	8.8
Park Reservoir	2/27	66	22.0	18.1	19.6
Porphyry Creek	2/27	49	15.6	11.0	13.9
Tomlchi	2/27	38	11.5	10.4	10.2
<u>Surface Creek</u>					
Alexander Lake	2/27	61	19.4	19.6	17.0
Mesa Lakes (B)	2/27	50	16.2	13.1	13.4
Park Reservoir	2/27	66	22.0	18.1	19.6
<u>Uncompahgre River</u>					
Tronton Park	2/28	41	12.2	7.6	10.4
Red Mountain Pass	2/27	80	29.9	25.8	23.5
Telluride (B)	2/28	31	9.3	6.4	5.9
COLORADO BASIN					
<u>Blue River</u>					
Blue River	2/28	29	7.2	7.1	7.3
Fremont Pass	2/28	38	10.2	12.6	12.4
Frisco	2/26	23	4.9	6.3	6.3
Grizzly Peak	2/26	37	9.5	15.5	13.4
Hoosier Pass (B)	2/28	32	8.5	11.3	10.5
Shrine Pass	2/26	46	12.9	16.0	13.6
Snake River	2/26	43	4.8	6.4	6.7
Summit Ranch	2/27	23	5.0	7.6	6.0

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG 53 67
<u>Colorado River</u>					
Arrow	2/27	34	10.7	12.0	9.3
Berthoud Pass	2/27	43	12.0	14.0	11.6
Berthoud Summit	2/26	48	13.1	14.1	14.8
Cooper Hill	2/26	32	7.4	8.7	8.5
Fiddler Gulch	NS			---	---
Glenmar Ranch	2/26	30	7.2	8.4	6.4
Gore Pass	2/27	29	7.8	9.6	8.4
Grand Lake	2/25	30	6.0	8.1	6.6
Lake Irene	2/25	54	14.9	19.2	18.2
Lapland	2/26	27	7.4	10.3	8.6
Lulu	2/27	47	13.8	16.9	13.2
Lynx Pass	2/27	36	10.1	11.0	10.0
McKenzie Gulch	2/26	26	5.5	7.2	4.8
Middle Fork	2/26	31	7.8	7.5	7.5
Milner	2/25	37	9.5	11.7	11.1
North Inlet	2/25	32	8.0	7.9	7.4
Pando	2/28	27	7.1	9.2	7.9
Phantom Valley	2/25	32	8.0	7.7	8.5
Ranch Creek	2/27	30	7.9	8.1	7.1
Tennessee Pass (B)	2/27	29	7.7	9.8	8.5
Vail Pass	2/26	42	12.0	15.5	14.0
Vasquez	2/27	35	8.5	11.6	9.5
<u>Roaring Fork River</u>					
Aspen	2/26	42	12.2	15.4	13.0
Chapman	2/26	40	10.0	14.6	---
Independence Pass	2/27	40	11.2	12.7	13.9
Ivanhoe	2/27	48	14.6	15.3	13.8
Kiln	2/27	37	9.3	11.9	---
Last Chance	2/27	32	8.9	10.4	---
Lift	2/26	42	10.8	13.9	13.8
McClure Pass	2/26	50	16.7	14.7	14.6
Nast	2/27	25	6.1	5.5	5.2
North Lost Trail	2/26	45	14.0	15.0	13.0
<u>Williams Fork River</u>					
Glenmar Ranch	2/26	30	7.2	8.4	6.4
Jones Pass	2/27	42	12.4	11.7	10.9
Middle Fork	2/26	31	7.8	7.5	7.5
<u>Willow Creek</u>					
Granby	2/26	22	4.5	8.0	6.1
Willow Creek Pass	2/26	35	8.8	10.7	9.8
<u>Plateau Creek</u>					
Mesa Lakes	2/27	50	16.2	13.1	13.4
Park Reservoir	2/27	66	22.0	18.1	19.6
Trickle Divide	2/27	69	22.8	20.1	21.1
YAMPA BASIN					
<u>Elk River</u>					
Clark	2/28	37	9.0	8.6	11.5
Elk River	2/28	45	12.8	16.0	15.5
Hahn's Peak	2/28	40	9.3	11.3	---
<u>Yampa River</u>					
Bear River	NS			---	---
Buffalo Pass	2/26	96	29.8	40.6	---
Columbine Lodge (B)	2/27	51	16.1	23.1	19.6
Dry Lake	2/26	51	16.3	16.5	17.6
Lynx Pass (B)	2/27	36	10.1	11.0	10.0
Rabbit Ears	2/27	59	19.5	22.3	21.2
Yampa View	2/27	39	12.1	12.7	12.3
<u>White River</u>					
Burro Mountain	2/27	48	15.1	13.0	15.2
Rio Blanco	2/26	42	11.3	12.0	12.9

NOTE: NS - No Survey  
(B) - On Adjacent Drainage

# APPENDIX II

## SOIL MOISTURE MEASUREMENTS as of March 1, 1973

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
NORTH PLATTE BASIN					
<u>North Platte River</u>					
Muddy Pass	11/8/72	11.1	7.7	6.8	6.4
Willow Pass	10/25/72	9.5	7.5	8.3	6.7
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Alpine Camp	10/1/72	6.9	3.1	3.5	3.7
<u>Big Thompson River</u>					
Beaver Dam	10/1/72	7.1	4.5	5.3	3.8
Guard Station	10/1/72	6.9	3.2	3.2	3.4
Two Mile	10/1/72	9.1	5.3	5.5	5.5
<u>Clear Creek</u>					
Clear Creek	12/28/72	9.5	7.1	5.3	7.1
Hoop Creek	10/25/72	4.9	2.8	2.6	2.9
<u>Cache La Poudre River</u>					
Feather	10/1/72	10.1	4.5	4.7	4.5
Laramie Road	10/1/72	12.4	6.9	6.5	7.8
<u>South Platte River</u>					
Hoosier Pass	10/25/72	7.8	5.5	4.4	4.9
Kenosha Pass	10/25/72	4.4	3.3	2.6	2.6
ARKANSAS BASIN					
<u>Arkansas River</u>					
Garfield	10/18/72	6.7	5.0	4.2	3.9
Leadville	10/16/72	7.8	4.0	3.4	4.2
Twin Lakes Tunnel	10/16/72	4.5	2.4	0.9	2.3
RIO GRANDE BASIN - COLORADO					
<u>Conejos River</u>					
Mogote	11/9/72	10.7	4.6	5.0	5.5
<u>Rio Grande</u>					
Bristol View	11/10/72	6.1	4.1	3.1	3.9
LaVeta	11/9/72	11.9	6.9	7.1	7.2
RIO GRANDE BASIN - NEW MEXICO					
<u>Rio Chama</u>					
Bateman	---	6.7	---	4.2	3.2
Chamita	2/27/73	8.0	7.0	4.1	4.1
<u>Rio Grande</u>					
Aqua Piedra	2/26/73	7.2	5.2	4.2	3.7
Big Tesuque	2/28/73	3.7	3.5	---	1.9
Rio En Medio	2/27/73	3.5	2.8	---	1.2
Taos Canyon	2/23/73	3.3	2.2	2.5	2.3
<u>Red River</u>					
Red River Summit	2/22/72	4.8	1.5	2.4	1.9

# APPENDIX II

SOIL MOISTURE MEASUREMENTS as of March 1, 1973

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
ANIMAS - SAN JUAN BASINS					
<u>Animas River</u>					
Cascade	11/8/72	9.1	7.2	5.5	6.3
Mineral Creek	11/8/72	5.7	3.2	3.1	3.7
Molas Lake	11/8/72	9.4	5.8	5.5	4.6
<u>Dolores River</u>					
Dolores	11/1/72	19.6	11.4	10.6	6.7
Lizzard Head	11/1/72	11.8	4.1	3.9	8.3
Rico	11/1/72	13.8	9.3	8.5	9.9
GUNNISON BASIN					
<u>Gunnison River</u>					
King	10/18/72	3.3	2.2	2.1	1.9
COLORADO BASIN (Mainstem)					
<u>Blue River</u>					
Blue River	10/25/72	4.2	3.2	2.7	2.8
<u>Colorado River</u>					
Berthoud Pass	10/25/72	3.9	3.2	2.5	2.8
Gore	10/31/72	4.9	3.1	3.3	2.5
Grand Mesa	11/2/72	12.5	12.3	9.9	9.3
Ranch Creek	10/25/72	8.7	5.4	4.7	6.0
Vail	12/28/72	12.3	6.9	4.9	6.9
<u>Roaring Fork</u>					
Placita	11/8/72	9.3	7.8	5.8	5.2
YAMPA BASIN					
<u>Yampa River</u>					
Hahn's Peak	11/8/72	19.0	12.1	11.3	11.8



# LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

## STATE

Colorado State Engineer  
New Mexico State Engineer  
Nebraska State Engineer  
Colorado State University Experiment Station  
Rocky Mountain Forest and Range Experiment Station

## FEDERAL

Department of Agriculture

Forest Service  
Soil Conservation Service

Department of Interior

Bureau of Reclamation  
Geological Survey  
National Park Service  
Indian Service

Department of Commerce

NOAA, National Weather Service

Defence Department

Army Engineer Corps

Atomic Energy Commission

## INVESTOR OWNED UTILITIES

Colorado Public Service Company  
Public Service Company of New Mexico

## MUNICIPALITIES

City of Denver	City of Greeley
City of Boulder	City of Fort Collins

## WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association  
Colorado River Water Conservation District

## IRRIGATION PROJECTS

Farmers Reservoir and Irrigation Company  
San Luis Valley Irrigation District  
Santa Maria Reservoir Company  
Costilla Land Company  
Uncompahgre Valley Water Users' Association  
Twin Lakes Reservoir and Canal Company  
Trinchera Irrigation Co.

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